

respect of their hydrophilic properties that the static initial contact angle after 3 minutes equilibration is greater than  $130^{\circ}$ .

15. A material as set forth in claim 14 including between 0.2 and 20% of the binding agent by weight of solids and between 0.5 and 40% by weight of at least one additional curing binding agent by weight of solids.

16. A material as set forth in claim 14 wherein it has a maximum water absorption of less than 10% by weight.

17. A material as set forth in claim 14 wherein it has a maximum water absorption of less than 5% by weight.

18. A material as set forth in claim 14 wherein it has a maximum water absorption of less than 2% by weight.

19. A material as set forth in claim 14 wherein the particles of particle size range (A) have a mean diameter in the range of between about 5 and about  $100\text{ }\mu\text{m}$ .

20. A material as set forth in claim 14 wherein the particles of particle size range (A) have a mean diameter in the range of between about 8 and about  $60\text{ }\mu\text{m}$ .

21. A material as set forth in claim 14 wherein the particles of particle size range (A) have a mean diameter in the range of between about 10 and about  $40\text{ }\mu\text{m}$ .

22. A material as set forth in claim 19 wherein the particles of particle size range (B) have a mean particle diameter of at most  $1\text{ }\mu\text{m}$ .

23. A material as set forth in claim 20 wherein the particles of particle size range (B) have a mean particle diameter of at most  $1\text{ }\mu\text{m}$ .

24. A material as set forth in claim 19 wherein the particles of particle size range (B) have a mean particle diameter of from between 0.1 and  $0.8\text{ }\mu\text{m}$ .

25. A material as set forth in claim 14 wherein the weight ratio of the particles of particle size range (A) to the particles of particle size range (B) is between 0.3:1 and 10:1.
26. A material as set forth in claim 17 wherein the weight ratio of the particles of particle size range (A) to the particles of particle size range (B) is between 0.3:1 and 10:1.
27. A material as set forth in claim 21 wherein the weight ratio of the particles of particle size range (A) to the particles of particle size range (B) is between 0.3:1 and 10:1.
28. A material as set forth in claim 14 wherein the weight ratio of the particles of particle size range (A) to the particles of particle size range (B) is between 0.3:1 and 10:1, preferably in the range of between 1.0:1 and 2.5:1.
29. A material as set forth in claim 14 wherein the binding agent contains between about 1.5 and about 30 percent of additional curing binding agent by weight of solids.
30. A material as set forth in claim 14 wherein the binding agent contains between about 1 and about 15 percent of silicone resin by weight of solids in the coating substance.
31. A material as set forth in claim 17 wherein the binding agent contains between about 1 and about 15 percent of silicone resin by weight of solids in the coating substance.
32. A material as set forth in claim 20 wherein the binding agent contains between about 1 and about 15 percent of silicone resin by weight of solids in the coating substance.

33. A material as set forth in claim 14 wherein the filler contained therein contains at least two different inorganic substances of which one forms the particles of the particle size range (A) and the other forms the particles of the particle size range (B).
34. A molding or coating material as set forth in claim 33 wherein the particles of the particle size range (A) comprise cristobalite and the particles of the particle size range (B) comprise titanium dioxide.
35. A material as set forth in claim 14 wherein it contains an additive selected from the group consisting of thickeners, wetting agents, organic fiber material, inorganic fiber materials, anti-foaming agent and mixtures thereof.
36. A method for coating a surface comprising applying the material of claim 14 to the surface.
37. A method for coating a surface comprising applying the material of claim 15 to the surface.
38. A method for coating a surface comprising applying the material of claim 16 to the surface.
39. A method for coating a surface comprising applying the material of claim 17 to the surface.
40. A method for coating a surface comprising applying the material of claim 20 to the surface.
41. A method for coating a surface comprising applying the material of claim 29 to the surface.
42. A method for coating a surface comprising applying the material of claim 33 to the surface.

43. A method for coating a surface comprising applying the material of claim 34 to the surface.

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